

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended)      A superabsorbent material, comprising:  
a superabsorbent material treated with a non-particulate solution including a hydrophilic soft polymer having an alkoxysilane functionality to resist damage when subjected to an Absorbent Product Processing Simulation Test;

wherein the treated superabsorbent material has a centrifuge retention capacity of about 15 grams or greater of 0.9 weight percent sodium chloride aqueous solution per gram of the treated superabsorbent material and a gel bed permeability (GBP) at a 0 psi swell pressure on pre-screened 300-600 micron particles of about 200 ( $\times 10^{-9} \text{ cm}^2$ ) or greater prior to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test; and subsequent to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test the treated superabsorbent material exhibits at least one property selected from the group consisting of: (1) a reduction in GBP value at a 0 psi swell pressure on pre-screened particles of about 20% or less; (2) a reduction in GBP value at a 0.3 psi swell pressure on pre-screened particles of about 50% or less; (3) a reduction in GBP value at a 0 psi swell pressure on un-screened particles of about 50% or less; (4) a reduction in GBP value at a 0.3 psi swell pressure on un-screened particles of about 60% or less; and (5) an average particle size reduction of about 20% or less.

2. (Currently Amended)      The superabsorbent material of Claim 1, wherein the superabsorbent material is treated with about 10% to about 1000% aqueous solution of a the hydrophilic soft polymer by weight of the superabsorbent material, wherein the hydrophilic soft polymer has a glass transition temperature of about 20 degrees Celsius or less.

3. (Original)      The superabsorbent material of Claim 1, wherein the treated superabsorbent material has a GBP value at a 0 psi swell pressure on pre-screened 300-600 micron particles of about 800 ( $\times 10^{-9} \text{ cm}^2$ ) or greater prior to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test.

4. (Original) The superabsorbent material of Claim 1, wherein the treated superabsorbent material has a centrifuge retention capacity of about 20 grams or greater of 0.9 weight percent sodium chloride aqueous solution per gram of the treated superabsorbent material prior to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test.

5. (Original) The superabsorbent material of Claim 1, wherein the treated superabsorbent material has a centrifuge retention capacity of about 25 grams or greater of 0.9 weight percent sodium chloride aqueous solution per gram of the treated superabsorbent material prior to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test.

6. (Original) The superabsorbent material of Claim 1, wherein, subsequent to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test, the treated superabsorbent material exhibits at least two properties selected from the group consisting of: (1) a reduction in GBP value at a 0 psi swell pressure on pre-screened particles of about 20% or less; (2) a reduction in GBP value at a 0.3 psi swell pressure on pre-screened particles of about 50% or less; (3) a reduction in GBP value at a 0 psi swell pressure on un-screened particles of about 50% or less; (4) a reduction in GBP value at a 0.3 psi swell pressure on un-screened particles of about 60% or less; and (5) an average particle size reduction of about 20% or less.

7. (Original) The superabsorbent material of Claim 1, wherein, subsequent to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test, the treated superabsorbent material exhibits at least three properties selected from the group consisting of: (1) a reduction in GBP value at a 0 psi swell pressure on pre-screened particles of about 20% or less; (2) a reduction in GBP value at a 0.3 psi swell pressure on pre-screened particles of about 50% or less; (3) a reduction in GBP value at a 0 psi swell pressure on un-screened particles of about 50% or less; (4) a reduction in GBP value at a 0.3 psi swell

pressure on un-screened particles of about 60% or less; and (5) an average particle size reduction of about 20% or less.

8. (Original) The superabsorbent material of Claim 1, wherein, subsequent to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test, the treated superabsorbent material exhibits at least four properties selected from the group consisting of: (1) a reduction in GBP value at a 0 psi swell pressure on pre-screened particles of about 20% or less; (2) a reduction in GBP value at a 0.3 psi swell pressure on pre-screened particles of about 50% or less; (3) a reduction in GBP value at a 0 psi swell pressure on un-screened particles of about 50% or less; (4) a reduction in GBP value at a 0.3 psi swell pressure on un-screened particles of about 60% or less; and (5) an average particle size reduction of about 20% or less.

9. (Original) The superabsorbent material of Claim 1, wherein the treated superabsorbent material has a GBP value at a 0.3 psi swell pressure on pre-screened 300-600 micron particles of about  $100 \times 10^{-9} \text{ cm}^2$  or greater, and a centrifuge retention capacity of about 25 grams or greater of 0.9 weight percent sodium chloride aqueous solution per gram of the treated superabsorbent material, prior to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test.

10. (Original) The superabsorbent material of Claim 1, wherein the treated superabsorbent material has a GBP value at a 0.3 psi swell pressure on pre-screened 300-600 micron particles of about  $200 \times 10^{-9} \text{ cm}^2$  or greater, and a centrifuge retention capacity of about 25 grams or greater of 0.9 weight percent sodium chloride aqueous solution per gram of the treated superabsorbent material, prior to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test.

11. (Original) The superabsorbent material of Claim 1, wherein, subsequent to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test, the treated superabsorbent material exhibits a reduction in GBP value at 0 psi swell pressure on pre-screened 300-600 micron particles of about 10% or less.

12. (Original) The superabsorbent material of Claim 1, wherein, subsequent to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test, the treated superabsorbent material exhibits a reduction in GBP value at 0.3 psi swell pressure on pre-screened 300-600 micron particles of about 30% or less.

13. (Original) The superabsorbent material of Claim 1, wherein, subsequent to subjecting the treated superabsorbent material to the Absorbent Product Processing Simulation Test, the treated superabsorbent material exhibits a reduction in GBP value at 0.3 psi swell pressure on un-screened particles of about 40% or less.

14. (Original) The superabsorbent material of Claim 1, wherein the superabsorbent material comprises a crosslinked polyelectrolyte including at least one of the group consisting of anionic polymers, cationic polymers, and combinations thereof.

15. (Original) The superabsorbent material of Claim 14, wherein the anionic polymers comprise functional groups selected from the group consisting of carboxyl, sulfonate, sulphate, sulfite, phosphate, and combinations thereof.

16. (Original) The superabsorbent material of Claim 14, wherein the anionic polymers are selected from the group consisting of salts of polyacrylic acid, polyacrylamido methylpropane sulfonic acid, polyvinyl acetic acid,

polyvinyl phosphonic acid, polyvinyl sulfonic acid, isobutylene-maleic anhydride copolymer, carboxymethyl cellulose, alginic acid, carrageenan, polyaspartic acid, polyglutamic acid, and copolymers or mixtures thereof.

17. (Original) The superabsorbent material of Claim 14, wherein the cationic polymers comprise functional groups selected from the group consisting of primary, secondary, and tertiary amine, imine, amide, quaternary ammonium, and combinations thereof.

18. (Original) The superabsorbent material of Claim 14, wherein the cationic polymers are selected from the group consisting of salts of polyvinyl amine, polydiallyl dimethyl ammonium hydroxide, polyacrylamidopropyl trimethyl ammonium hydroxide, polyamino propanol vinyl ether, polyallylamine, chitosan, polylysine, polyglutamine, and copolymers or mixtures thereof.

19. (Original) An absorbent material comprising the superabsorbent material of Claim 1.

20. (Original) An absorbent article comprising the superabsorbent material of Claim 1.

21. (Original) The absorbent article of Claim 20, comprising an absorbent layer having at least one region containing superabsorbent material in a concentration of about 10% superabsorbent material or greater based on total weight of the absorbent layer.

22-28. (Cancelled)

29. (Currently Amended) The superabsorbent material of Claim 1, wherein the ~~non-particulate solution includes a~~ hydrophilic soft polymer ~~having~~ has a glass transition temperature of about 20° C or less.

30. (Previously Presented) The superabsorbent material of Claim 29, wherein the hydrophilic soft polymer has a glass transition temperature of about 0° C or less.

31. (Currently Amended) The superabsorbent material of Claim 29, wherein the hydrophilic soft polymer ~~is selected from~~ further comprises at least one of the group consisting of hydroxypropyl cellulose, polyethylene oxide, polypropylene oxide, polyethylene glycol, polypropylene glycol, hydrophilic acrylate copolymers, hydrophilic methacrylate copolymers, and combinations thereof.

32. (Currently Amended) The superabsorbent material of Claim 29, wherein the hydrophilic soft polymer further comprises a reaction product of a monoethylenically unsaturated polymer and an acrylate or methacrylate ester.

33. (Currently Amended) The superabsorbent material of Claim 29, wherein the hydrophilic soft polymer further comprises a reaction product of two different monoethylenically unsaturated monomers, one of which includes an alkoxysilane functionality.

34. (Previously Presented) The superabsorbent material of Claim 29, wherein the hydrophilic soft polymer exhibits latent, moisture-induced crosslinking.

35. (Currently Amended) The superabsorbent material of Claim 32, wherein the hydrophilic soft polymer further comprises a reaction product of the monoethylenically unsaturated polymer, the acrylate or methacrylate ester, and a polyolefin glycol or oxide.